

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 April 2002 (25.04.2002)

PCT

(10) International Publication Number
WO 02/33571 A2

- (51) International Patent Classification⁷: **G06F 17/00**
- (21) International Application Number: **PCT/EP01/11989**
- (22) International Filing Date: 16 October 2001 (16.10.2001)
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
09/688,174 16 October 2000 (16.10.2000) **US**
00127973.6 20 December 2000 (20.12.2000) **EP**
- (71) Applicant (for all designated States except US): **LION BIOSCIENCE AG [DE/DE]; Im Neuenheimer Feld 515, 69120 Heidelberg (DE).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **MINCH, Eric [US/DE]; Altes Holz 4, 69207 Sandhausen (DE). CROFT, David [GB/DE]; Hauptstrasse 238, 69117 Heidelberg (DE). RICHTER, Stefan [DE/DE]; Leimer Strasse 7, 69126 Heidelberg (DE).**
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:**
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **METHOD OF OPERATING A PLURALITY OF ELECTRONIC DATABASES**

(57) Abstract: A method of operating a plurality of electronic databases which can be accessed simultaneously by a user, said databases each comprising a search facility for records of the database, is characterized by providing one or more links from at least some data records of a first database to one or more records of at least a second database, performing a search in at least said first database and executing at least one of said links from at least one of the records forming the result of said search.

WO 02/33571 A2

Claims

1. Method of operating a plurality of electronic databases which can be accessed simultaneously by a user, said databases each comprising a search facility for records of the database,
characterized by providing one or more links from at least some data records of a first database to one or more records of at least a second database,
performing a search in at least said first database,
executing at least one of said links from at least one of the records forming the result of said search, wherein a data record in said second database related to a record in said first database by a link is accessed automatically.
2. Method according to claim 1, characterized in that at least one of said links between the two databases is a link created instantaneously.
3. Method according to one of claims 1 or 2, characterized in that on the basis of the result of a first search in one of said databases a search query for another database is automatically generated and said search query is executed to carry out a search in said other database.
4. Method according to claim 3, characterized in that the result of said first search is entered as a search parameter into said search query for said other database.
5. Method according to one of claims 1 to 4, characterized in that at least part of the record forming a result of said search in said first database and an output resulting from executing a link from said record to a second database are output simultaneously.
6. Method according to one of claims 4 to 5, characterized in that the search result of related searches in a plurality of databases are combined into one single output.
7. Method according to one of claims 1 to 6, characterized in that a user is presented a list of records as a result of the search and upon selection of one or more of these

search results by a user a link to another database from said selected search results is automatically executed.

8. Method according to claim 7, characterized in that only such records are output that relate to a link the execution of which was initiated by the presently selected record forming the result of said first search.
9. Method according to one of claims 4 to 8, characterized in that the search result of said other search is used to generate a search query for a third search.
10. Method according to one of claims 1 to 9, characterized in that the search results of a plurality of searches are used to generate one or more search queries for a further search.
11. Method according to one of claims 1 to 10, characterized in that at least two of the databases relate to different subject matter, said subject matter being one of compounds, proteins, genes, taxa, text documents or reaction pathways.
12. Computer system capable of accessing a plurality of databases, each of which comprises a search facility, characterized by means for carrying out the steps of one of the methods according to claims 1 to 11.
13. Computer program performing, when executed on a computer, the following steps:
 - receiving a search result from a first database,
 - automatically executing a link from said result to a second database,
14. Computer program according to claim 13, performing, when executed on a computer the following steps:
 - automatically generating a search query for a second database on the basis of said search result,
 - initiating a search in said second database according to said search query.
15. Computer readable medium comprising data readable by a computer, said data comprising a program according to claim 13 or 14.